

# **KIRK System 500 2G4**

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## **Technical Guide**

**14090000 Version 2**

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# How to Register a Master Handset

When turning on the KIRK System 500 2G4, it will automatically go into registration mode for a period of 15 min. In this period you can register the MASTER handset. (it's only possible to login 1 MASTER on each system. The first handset is automatically the MASTER handset).

It is now possible to register the first handset (it will automatically be configured to channel 00).

- **Press the *menu* key.**
- **Press the *<* key twice**
- **The menu will now show "LOGIN "**
- **Press the *✓* key - the menu will show "Select login "**
- **Press the *>* key once - then press *✓* - the menu will now show: *Subscription search ID:***

The handset will start searching for "your" System 500. When the handset finds a system, a number will appear in the display.

The handset might detect more than one number (This only happens if the handset detects another system nearby. It does not mean that your - or the other - system communicates! There are no safety problems attached to this indication)

If the handset detects more than one system, a black triangle will appear in the bottom of the display, indicating that you can press the *<* key or the *>* key.

It is now possible to scroll between the numbers in the display by pressing the *<* or the *>* key.

It is important that the number shown in the display is identical to the number which you find on your System 500. The number is indicated as an ARI (indicated on the label on the back of the base station).

When you are certain to have indicated the correct number, press the *✓* key and the handset will be configured as the MASTER handset of the system.

Now you have to allocate an extension number to the handset:

You can now enter the Serial Number of the new handset (found inside the handset )

- **Press the "menu" key.**
- **Press the > key once.**
- **The menu must now show "EXT. Service"**
- **Press the ✓ key. The menu will now show "Clip Stack "**
- **Press the < key twice "Read/Write userdata" appears in the display.**
- **Then press the ✓key.**

The Serial Number of the MASTER handset will now show in the display. Press the ✓key.

Right after this has been done, the handset will ask for an extension number. Simply enter the extension number already used by the user of the handset (Can be the " old " extension number used on the corded phone. Or alternatively any number available in the PABX, in the case the DECT handset is the only phone used by the user ).

Right after this, the handset will have to be turned off and then on again. In the display "system 500" will show.

Referring to this handset as "MASTER" means that you can configure more handsets on the system by use of this handset.

## Registering Additional Handsets via Master Handset

It is now possible to register additional handsets via your MASTER handset. If you want to register a handset, the MASTER handset must "allow" you to do so.

- **Press the "menu" key.**
- **Press the > key once.**
- **The menu must now show "EXT. Service"**
- **Press the ✓key. The menu will now show "Clip Stack "**
- **Press the < key twice "Read/Write userdata" appears in the display.**
- **Then press the ✓key.**

The Serial Number of the MASTER handset will now show in the display. If you press the > key, you will have 7 additional positions (channel 01 - 07) to which you can configure handsets.

If the position is empty, the display will show " \_\_\_\_\_ "

You can now enter the Serial Number of the new handset (found inside the handset on the label under the battery). Key in the number in the line " \_\_\_\_\_ " shown in the display followed by pressing the ✓key.

Right after this has been done, the handset will ask for an extension number. Simply enter the extension number. Then press the ✓key (can be the "old" extension number used on the corded phone. Or alternatively any number available in the PABX).

The MASTER handset has now " allowed " the system to register the new handset to the system. You can now register the handset following the procedure used when registering the MASTER handset. By pressing < once you will return to the registration menu. More handsets can be registered following the same procedure.

## **How to Delete a Registered Handset**

Enter the menu "EXT.Service".

The menu is called "Delete\_user\_info"

When choosing this menu, you will see the same menu structure as above.

Instead you choose the Serial Number to be deleted and press the ✓key.



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# How to Register a Repeater

If you want to expand the coverage area of the system, this is done by adding repeaters to the system. As indicated by the name, it adds a larger area to the already existing coverage area.

**Note**

The repeater does not add capacity, ie. more channels, but only a larger coverage area. The repeater can only be registered into the system when placed within the coverage area of the base station ( Please read the repeater deployment note on the CD-ROM for further information on different types of repeaters).

In general terms, KIRK System 500 2G4 contains 6 available speech channels in the coverage area of the base station.

There are 2 simultaneous speech channels in the coverage area of each Repeater. These 2 channels are "borrowed" from the base station, and are not an addition to the system's 6 channels.

Each handset uses one channel when making a call - internal or external. Thus, in total 6 handsets can be in use at the same time.

When 6 handsets are " in the air " the system sends out a busy signal. On KIRK handsets this is indicated by a flashing antenna icon in the lower left corner of the display.

## How to Register a Repeater to the System

Using the Repeater Programming Tool, the following must be registered: The system ARI code (Indicated on the label on the back of the base station)  
Number of the base station (Always 01 when not dealing with Repeater Jumps)  
Number of the repeater. (2-7)

When the registration has been finalised, the Repeater is ready to be placed in the area in which coverage is wanted.



## How to Establish Repeater Jumps (Repeaters in a Chain)

The repeater furthest from the base station cannot "see" the system - it is therefore necessary to establish a connection to the basestation through the repeater which is closest.

When registering the repeater (Number 2 in the chain from the base station) it is important to enter the number of the repeater through which you are "looking" as if it was a base station (i.e. in the field "BASEstation" in the programming tool SW) Now the repeater works as a base station to the (outer) repeater and as a repeater to the base station.

### **Warning !**

This equipment is NOT intended to connect to a public or private network.  
It is only intended for closed connection to TNV2 circuits.

Important !! When either repeater in a chain is busy ( 2 channels used ) the repeaters "behind" ( seen from the basestation) cannot provide any speechchannels. Only 2 speechchannels are available in total per chain .

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# Regulatory Information

## Important Safety Instructions and Product Information

Before using your telephone equipment, you should always follow basic safety instruction to reduce the risk of fire, electrical shock and injury to persons, and damage to property.

- 1 Read and understand all instructions
- 2 Follow all warnings and instructions including those marked on the product
- 3 Unplug this product before cleaning. Do not use liquid cleaners or aerosol cleaners. Use damp cloth for cleaning
- 4 Do not install the telephone equipment in the bathroom or near a wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool
- 5 5 Slots or openings in the cabinet back and bottom of the equipment are provided for ventilation to protect it from over-heating. These openings must not be blocked or covered.
- 6 The product should be operated only from the type of power source indicated on the instructions. If you are not sure of the type of power supply, consult your dealer or local power company.
- 7 Do not overload wall outlets and extension cords as this can result in fire or electrical shock.
- 8 Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in fire, electrical shock, or injury. Never spill liquid of any kind into this product.
- 9 To reduce the risk of electrical shock or burns, do not disassemble this product. Opening or removing covers may expose you to dangerous voltages, dangerous electrical current, or other risks. Incorrect reassembly can cause electrical shock when the appliance is subsequently used. If the product needs repair, consult your dealer.
- 10 Refer servicing to qualified service personnel under the following conditions:

- a AQ If liquid has been spilled into the product
  - b BQ If the product has been exposed to rain or water
  - c CQ If the product does not operate normally when following the operating instructions in the manual. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and will often require extensive work by qualified service personnel to restore the product to normal operation.
  - d DQ If the product has been dropped or cabinet has been damaged
  - e EQ If the product exhibits a distinct change in performance
- 11 Avoid using telephone during an electrical storm. There may be a risk of electrical shock from lightning
  - 12 Do not use the telephone to report a gas leak in the vicinity of the leak
  - 13 Do not place the base or charger near microwave ovens, radio equipment, or non-ground connected televisions. These appliances may cause electrical interference to the base or handset
  - 14 The charger must be placed on a hard, flat surface and connected to a functional 120 volt AC power netadapter and plug the adapter into the power outlet
  - 15 This telephone will not operate in the event of a blackout. Please keep a backup phone for emergencies

#### **Intrinsic safety**

Do not use the handset in conditions where there is a danger of electrically ignited explosions.

#### **Exposure to sunlight, heat and moisture**

Do not expose the cordless phone to direct sunlight for long periods. Keep the cordless phone away from excessive heat and moisture.

#### **Battery disposal**

Defective batteries must be returned to a collection point for chemical waste disposal.

#### **Spare parts and accessories**

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage.

#### **Power failure**

In the event of a power failure or flat battery, you cannot use the handset to make or receive calls.

## NOTICES

**NOTICE:** Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**CAUTIONS:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

If your telephone equipment causes harm to the telephone network, the telephone company may ask you to disconnect the system from the line until the problem has been corrected or they may discontinue your service temporarily. If possible, they will notify you in advance, But if advance notice is not practical, you should be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your telephone system. If they do and it is possible, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service. If you experience trouble with this telephone system, disconnect it from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

**Note:** This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- a** -Reorient or relocate the receiving antenna.
- b** Increase the separation between the equipment and receiver.
- c** Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- d Consult the dealer or an experienced radio/TV technician for help.

**Power Outage:** In the event of a power outage, your cordless telephone will not operate. The cordless telephone requires electricity for operation. You should have a telephone which does not require electricity available for use during power outages.

**Information to user:** The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### LIMITED WARRANTY

This limited, non-transferable warranty is provided to the original purchaser. The product is warranted to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

Our obligation under this warranty is limited to repair or replacement (at our option) of the product or any part(s) which are defective provided that the product is returned to the original place of purchase or an authorized service location during the warranty period. Products returned must be accompanied by a copy of the purchase receipt. In the absence of a purchase receipt, the warranty period shall be one (1) year from the date of manufacture. Repair or replacement of the product is your sole and exclusive remedy.

If the product is repaired, reconditioned component parts or materials may be used. If the product is replaced, we may replace it with a new or reconditioned product of the same or similar design. The repaired product will be warranted for either (a) 90 days or (b) the remainder of the original one (1) year warranty period, whichever is longer.

This warranty does not apply to the defects outside of our control, including but not limited to acts of God, fire, flood and damage while in transit to service facility. We do not warranty that the product will be compatible with any telephone equipment, systems or party lines.

This warranty shall be void if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our authorized service facility, or any violation of instructions furnished by us.

This warranty is also void if this product is removed from the country in which it was purchased by the original purchaser, if it is used in a country in which it is not registered for use, or if it is used in a country for which it was not designed. Due to variations in telephone systems and communications laws, this product may be illegal for use in some countries. We assume no responsibilities for damages or penalties incurred resulting from the use of this product in a manner or location other than that for which it was intended.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSOR IMPLIED. ANY IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY. WE DISCLAIM ANY LIABILITY FOR DAMAGES FOR LOSS OF USE OF THE PRODUCTS, LOSS OF TIME, INCONVENIENCE, INJURY TO ANY PERSON, OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT, LOSS OF REVENUE OR PROFIT OR DAMAGES FOR ANY FAILURE TO PERFORM. IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES EVEN IF WE ARE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty is the sole and exclusive warranty provided for the product. There are no other express warranties. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

#### **FCC approval**

'This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

CAUTION: Privacy of communication may not be ensured when using this phone.

#### **RF Exposure Statement**

The EUT is considered as a mobile device according to OET Bulletin 65, Edition - 97 - 01. Therefore distance to human body of min. 20 cm is determined.

The internal / external antennas used for this mobile transmitter must provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.